U.S. DEPARTMENT OF ENERGY

SOLAR DECATHLON BUILDING













CHALLENGING. EXHILARATING. INSPIRING. LIFE-CHANGING.

The Solar Decathlon is all these things to the hundreds of students who take part in the competition. Since 2002, teams representing universities from around the world work endless hours to design and build solar-powered houses for this amazing competition held biennially on the National Mall in Washington, D.C. Representing fields from engineering and architecture to communications and business, the students combine their skills and stretch their abilities to take part in this unparalleled learning experience. They push harder than they thought was possible as they work to make a difference in the way houses are built.

Once the competition begins, they serve as ambassadors for their homes, for their schools and for renewable energy—all the while gaining the ideas and insights and contacts that will benefit them later. And when the judging is over and the scores are in, the Decathletes celebrate as they have never celebrated before. They celebrate the solar homes they've constructed, the friendships they've forged, and the futures that they will start building tomorrow.

GENERATING POWERFUL BENEFITS FAR INTO THE FUTURE

There's no better way to demonstrate the long-term value of the Solar Decathlon than to share a few stories of past Decathletes whose lives were forever changed by this incredible event.



Launching a Successful Career

As a graduate student at the University of Colorado, Jeff Lyng knew he wanted to work in renewable energy. And when he became project manager for CU's 2005 Solar Decathlon team, he knew that he was likely to meet potential employers and mentors through the competition. But he never dreamed that the Decathlon would give him entree "The

to the highest levels of government.

CU won the overall competition in 2005. At the closing ceremony, where Jeff accepted the firstplace trophy on behalf of CU, exhausting, and transformative, he met Secretary of Energy Samuel Bodman. Less than two months later, Jeff testified before the House

Subcommittee on Energy. In early

2006, as a result of Secretary

Bodman's recommendation, he attended President Bush's energy-focused State of the Union address, where he sat next to First Lady Laura Bush.

Jeff, who is now the renewable energy program manager for the Colorado Governor's Energy Office, calls the Decathlon "the launch pad for my career." He strongly encourages students to get involved in the competition. "Hands down, you are more attractive to an employer if you participate in the Decathlon than if you put that time solely into coursework. You can talk about something real that you've done."

You might even have some fun, Jeff adds. "It was an absolute blast. There was a lot of running around and there were a lot of 20-hour days, but I wouldn't trade it for anything, and I don't think anyone else would, either."

> "The Solar Decathlon was by far the most mentally, physically and emotionally challenging thing I have ever done."

Chad Corbin, University of Colorado at Boulder,

"The **Solar Decathlon** reinforced my passion for green buildings and renewable technologies."

> Claudia Torres Arriaga, Penn State, 2007

Taking a New Direction

David Shieren put his new company on hold to work on the

New York Institute of Technology's (NYIT)

Solar Decathlon 2005 team. He was a graduate student in energy management at the time, and he knew the competition would be a challenge. Challenge, indeed. It dominated more than two years of his life—but it also inspired a new direction for his business and introduced him to his girlfriend.

As energy team leader for the Decathlon, David was responsible for overseeing all energy systems for the NYIT project, which involved up to 60 people at various times. "We were all devoted and committed to



Solar Decathlon

experience was fantastic—

challenging, exhilarating,

particularly for the students."

Sandy Stannard, California Polytechnic State University

faculty advisor, 2005





University of Missouri-Rolla (now the Missouri University of Science and Technology) has competed in four Solar Decathlons. The team's competition homes form a Solar Village that provides on-campus housing for students. Photo credit: Missouri S&T/Bob Phelan

"The Solar
Decathlon opened my
eyes to the importance
of sustainable design
and energy efficiency."

Christina Span, Lawrence Technological University, 2007

this project beyond anything else that was going on in our lives. We knew it was something important," he says.

The long-term benefits of participating in the Decathlon are still paying off. David is now the chief executive officer of EmPower CES, the company he cofounded in 2003 in Island Park, New York. Several of his Decathlon teammates are part of the business.

He is also a leader in the Solar Decathlon Alumni Association, which is being established to give former Decathletes a way to share information, network about job opportunities, and advocate on important issues. And yes, David and his girlfriend, a Decathlon alumnus whom he met at the 2005 competition, are still together. "Thanks
to the Solar
Decathlon, I got a
master's degree and I'm
working in a field
I truly enjoy."

David Click, University of Virginia, 2002

Inspiring an Environmental Future

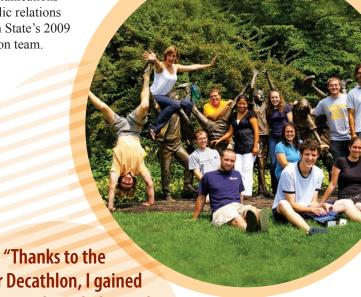
Gretchen Miller joined the Penn State Solar Decathlon 2007 team at her boyfriend's suggestion. "He kept complaining that the team needed members with my skills. So, instead of listening to him any longer, I got highly involved." She never regretted it. The experience changed her perspective, her attitude, and her career.

Scheduled to receive her B.S. in industrial engineering in May 2007, Gretchen found that her new knowledge about renewable energy made it virtually impossible for her to consider accepting a traditional engineering job. She went through a period of soul searching and decided to enroll in graduate school to pursue a career in what she calls "environmental manufacturing engineering."

"I decided to develop something that, in the future, industries around the world can implement when they realize the importance of the synergy between themselves and the environment," she says. "My goal is to make a significant impact in my industry by incorporating the environment and industry in a holistic approach."

Gretchen, now a graduate engineering student at Penn State, is working with BP Solar to establish a program for solar power research on the campus. She's writing her master's thesis on the impact of manufacturing on global warming. And she's once again involved with the Solar Decathlon.

In her spare time, she's serving as the project manager of communications and public relations for Penn State's 2009 Decathlon team.



Solar Decathlon, I gained experience, knowledge and personal growth that probably would have taken years to develop if I had not been a Decathlete."

Ingrid Arocho, Puerto Rico, 2005

"The solar industry is growing rapidly, and the Solar Decathlon serves as a unique resource for qualified graduates."

Todd Foley, Director, Business Development & External Affairs, BP Solar

BECOME A SOLAR DECATHLON SPONSOR

Inspired by the enthusiasm and achievements of the Decathletes? Join the Solar Decathlon team by becoming a sponsor of the event or of an individual team.

For more information, contact:

Richard King
Director, Solar Decathlon
U.S. Department of Energy
1000 Independence Avenue, SW
Washington, DC 20585
Phone: 202-586-1693
richard.king@ee.doe.gov





Produced for the U.S. Department of Energy by the National Renewable Energy Laboratory, a DOE national laboratory

D0E/G0-102008-2642 • September 2008

Printed with a renewable-source ink on paper containing at least 50% was tepaper, including 10% postconsumer waste

SOLAR DECATHLON TEAMS

The following teams have competed in one or more Solar Decathlons since the inaugural event in 2002.

- Auburn University 2002
- California Polytechnic State University 2005
- Canadian Solar Decathlon (Concordia University and Université de Montréal)
 2005
- Carnegie Mellon 2002, 2007
- Cornell University 2005, 2007, 2009
- Crowder College 2002, 2005
- Florida International University 2005
- Georgia Institute of Technology 2007
- Iowa State University of Science and Technology 2009
- Kansas Project Solar House (Kansas State University and University of Kansas) 2007
- Lawrence Technological University 2007
- Massachusetts Institute of Technology 2007
- New York Institute of Technology 2005, 2007
- The Ohio State University 2009
- Penn State 2007, 2009
- Pittsburgh Synergy (Carnegie Mellon, University of Pittsburgh, and The Art Institute of Pittsburgh) — 2005
- Rhode Island School of Design 2005
- Rice University 2009
- Santa Clara University 2007
- Team Alberta (University of Calgary, SAIT Polytechnic, Alberta College of Art and Design, and Mount Royal College) 2009
- Team Boston (Boston Architectural College and Tufts University) 2009
- Team California (Santa Clara University and California College of the Arts) 2009
- Team Missouri (Missouri University of Science and Technology and University of Missouri) — 2009
- Team Montréal (École de Technologie Supérieure, Université de Montréal, McGill University) – 2007
- Team Ontario/BC (University of Waterloo, Ryerson University, and Simon Fraser University) 2009
- Technische Universität Darmstadt 2007, 2009 (Overall Winner, 2007)
- Texas A&M University 2002, 2007
- Tuskegee University 2002
- Universidad de Puerto Rico 2002, 2005, 2007, 2009
- Universidad Politécnica de Madrid 2005, 2007, 2009
- The University of Arizona 2009
- University of Cincinnati 2007
- University of Colorado at Boulder 2002, 2007 (Overall Winner, 2002)
- University of Colorado, Denver and Boulder 2005 (Overall Winner, 2005)
- University of Delaware 2002
- University of Illinois at Urbana-Champaign 2007, 2009
- University of Kentucky 2009
- University of Louisiana at Lafayette 2009
- University of Maryland 2002, 2005, 2007
- University of Massachusetts Dartmouth 2005
- University of Michigan 2005
- University of Minnesota 2009
- University of Missouri-Rolla 2007
- University of Missouri-Rolla and Rolla Technical Institute 2002, 2005
- University of North Carolina at Charlotte 2002
- University of Texas at Austin 2002, 2005, 2007
- University of Virginia 2002
- University of Wisconsin-Milwaukee 2009
- Virginia Tech 2002, 2005, 2009
- Washington State University 2005